

I CLAIM:

1 1. A rail mount comprising:

2 a generally rectangular top plate formed with a central
3 rail receiving surface on a top of said top plate flanked at
4 opposite ends of said receiving surface by eyes adapted to
5 receive e-clips for securing a rail to the rail mount on said
6 receiving surface, said top plate having a planar bottom surface,
7 said receiving surface being canted with respect to a plane of
8 said bottom surface, said top plate having upwardly extending
9 ribs over a full width of the top plate at opposite ends thereof,
10 each rib having an outer flank perpendicular to said plane, an
11 inner flank inclined at an angle of substantially 30° to 60° to a
12 vertical, and a rounded junction between said flanks;

13 a frame having a rectangular opening receiving said top
14 plate with all-around clearance, said frame having a bottom
15 surface spaced below said bottom surface of said plate and
16 defining a cavity underlying said plate and communicating with
17 said all-around clearance, said frame being further formed with
18 hoods at opposite ends thereof reaching inwardly over said ribs
19 and spaced above said ribs, and with four outwardly extending
20 lugs located respectively along opposite longitudinal sides of
21 said frame at each end thereof, said lugs being formed with
22 openings enabling the passage of anchor bolts for securing the
23 rail mount to a support; and

24 a body of elastomer bonded to both said top plate and
25 said frame at all surfaces of said top plate and said frame

26 contacted by said body of elastomer, said body of elastomer
27 filling said cavity and said clearance and having a bottom formed
28 with spaced apart pads of said elastomer and bearing load against
29 said support varying as a train rides over said rail, said
30 elastomer filling gaps between said hoods and said ribs and
31 extending downwardly along said inner flanks.

1 2. The rail mount defined in claim 1 wherein said pads
2 are elongated in a direction perpendicular to a longitudinal axis
3 of the rail mount, are of generally oval configuration and are
4 arranged in a plurality of rows parallel to said axis.

1 3. The rail mount defined in claim 2 wherein the
2 elastomer is selected from the group which consists of natural
3 rubber, synthetic rubber, a mixture of natural rubber and
4 synthetic rubber, silicone rubber and a synthetic resin.

1 4, The rail mount defined in claim 3 wherein said hoods
2 have curved inner surfaces juxtaposed with said ribs and of radii
3 of curvature of at least 5mm.

1 5. The rail mount defined in claim 4 wherein the
2 elastomer on said inner flanks tapers in thickness downwardly and
3 has an outer concave face.

1 6. The rail mount defined in claim 5 wherein each of
2 said inner flanks terminates at a top surface of the top plate,
3 said receiving surface lying above said top surface.

1 7. The rail mount defined in claim 6 wherein said
2 receiving surface has a cant to the horizontal of a ratio of
3 about 1:20.

1 8. The rail mount defined in claim 1 wherein the
2 elastomer is selected from the group which consists of natural
3 rubber, synthetic rubber, a mixture of natural rubber and
4 synthetic rubber, silicone rubber and a synthetic resin.

1 9, The rail mount defined in claim 1 wherein said hoods
2 have curved inner surfaces juxtaposed with said ribs and of radii
3 of curvature of at least 5mm.

1 10. The rail mount defined in claim 1 wherein the
2 elastomer on said inner flanks tapers in thickness downwardly and
3 has an outer concave face on each of said inner flanks.

1 11. The rail mount defined in claim 1 wherein each of
2 said inner flanks terminates at a top surface of the top plate,
3 said receiving surface lying above said top surface.

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1 12. The rail mount defined in claim 1 wherein said
2 receiving surface has a cant to the horizontal of a ratio of
3 about 1:20.